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1600

RAW SEQUENCE LISTING

DATE: 07/22/2003

PATENT APPLICATION: US/09/496,231C

TIME: 08:12:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07222003\I496231C.raw

4 <110> APPLICANT: Hubbell, Jeffrey A.
 5 Elbert, Donald
 6 Lutolf, Matthias
 7 Pratt, Alison
 8 Schoenmakers, Ronald
 9 Tirelli, Nicola
 10 Vernon, Brent
 12 <120> TITLE OF INVENTION: BIOMATERIALS FORMED BY NUCLEOPHILIC
 13 ADDITION REACTION TO CONJUGATED UNSATURATED GROUPS
 16 <130> FILE REFERENCE: 50154/002002
 18 <140> CURRENT APPLICATION NUMBER: 09/496,231C
 19 <141> CURRENT FILING DATE: 2000-02-01
 21 <150> PRIOR APPLICATION NUMBER: 60/118,093
 22 <151> PRIOR FILING DATE: 1999-02-01
 24 <160> NUMBER OF SEQ ID NOS: 74
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 10
 30 <212> TYPE: PRT
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Based on Homo sapiens
 W--> 36 <221> NAME/KEY: VARIANT
 37 <222> LOCATION: (1)...(10)
 38 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
 W--> 40 <400> 1
 W--> 41 Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Tyr
 42 1 5 10
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 8
 45 <212> TYPE: PRT
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Based on Homo sapiens
 W--> 51 <221> NAME/KEY: VARIANT
 52 <222> LOCATION: (1)...(8)
 53 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
 W--> 55 <400> 2
 W--> 56 Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys
 57 1 5
 58 <210> SEQ ID NO: 3
 59 <211> LENGTH: 6
 60 <212> TYPE: PRT

P.6

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RAW SEQUENCE LISTING

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61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Based on Homo sapiens
W--> 66 <221> NAME/KEY: VARIANT
67 <222> LOCATION: (1)...(6)
68 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
W--> 70 <400> 3
W--> 71 Xaa Xaa Xaa Xaa Xaa Xaa
72 1 5
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 13
75 <212> TYPE: PRT
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Based on Homo sapiens
W--> 81 <221> NAME/KEY: VARIANT
82 <222> LOCATION: (1)...(13)
83 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
W--> 85 <400> 4
W--> 86 Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys
87 1 5 10
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 7
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Based on Homo sapiens
W--> 96 <221> NAME/KEY: VARIANT
97 <222> LOCATION: (1)...(7)
98 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
W--> 100 <400> 5
W--> 101 Cys Xaa Xaa Xaa Xaa Xaa Cys
102 1 5
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 13
105 <212> TYPE: PRT
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Based on Homo sapiens
W--> 111 <221> NAME/KEY: VARIANT
112 <222> LOCATION: (2)...(6)
113 <223> OTHER INFORMATION: Xaa=any amino acid except Cys or Tyr
W--> 115 <221> VARIANT
116 <222> LOCATION: (8)...(12)
117 <223> OTHER INFORMATION: Xaa=any amino acid except Cys or Tyr
W--> 119 <221> MOD_RES
120 <222> LOCATION: 1
121 <223> OTHER INFORMATION: Xaa=acetylated Tyrosine
W--> 123 <400> 6

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```

W--> 124 Xaa Xaa Xaa Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Tyr
      125 1 5 10
      128 <210> SEQ ID NO: 7
      129 <211> LENGTH: 5
      130 <212> TYPE: PRT
      131 <213> ORGANISM: Artificial Sequence
      133 <220> FEATURE:
      134 <223> OTHER INFORMATION: Based on Homo sapiens
W--> 136 <221> NAME/KEY: VARIANT
      137 <222> LOCATION: (1)...(5)
      138 <223> OTHER INFORMATION: Xaa=any amino acid except Cys or Tyr
W--> 140 <400> 7
W--> 141 Xaa Xaa Xaa Xaa Xaa
      142 1 5
      143 <210> SEQ ID NO: 8
      144 <211> LENGTH: 6
      145 <212> TYPE: PRT
      146 <213> ORGANISM: Artificial Sequence
      148 <220> FEATURE:
      149 <223> OTHER INFORMATION: Based on Homo sapiens
      151 <400> SEQUENCE: 8
      152 Gly Pro Arg Val Val Glu
      153 1 5
      154 <210> SEQ ID NO: 9
      155 <211> LENGTH: 6
      156 <212> TYPE: PRT
      157 <213> ORGANISM: Artificial Sequence
      159 <220> FEATURE:
      160 <223> OTHER INFORMATION: Based on Homo sapiens
      162 <400> SEQUENCE: 9
      163 Asn Asn Arg Asp Asn Thr
      164 1 5
      165 <210> SEQ ID NO: 10
      166 <211> LENGTH: 6
      167 <212> TYPE: PRT
      168 <213> ORGANISM: Artificial Sequence
      170 <220> FEATURE:
      171 <223> OTHER INFORMATION: Based on Homo sapiens
      173 <400> SEQUENCE: 10
      174 Tyr Asn Arg Val Ser Glu
      175 1 5
      176 <210> SEQ ID NO: 11
      177 <211> LENGTH: 6
      178 <212> TYPE: PRT
      179 <213> ORGANISM: Artificial Sequence
      181 <220> FEATURE:
      182 <223> OTHER INFORMATION: Based on Homo sapiens
      184 <400> SEQUENCE: 11
      185 Gln Met Arg Met Glu Leu

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186 1 5
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 6
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Based on Homo sapiens
195 <400> SEQUENCE: 12
196 Gly Phe Arg His Arg His
197 1 5
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 6
200 <212> TYPE: PRT
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Based on Homo sapiens
206 <400> SEQUENCE: 13
207 Gly Tyr Arg Ala Arg Pro
208 1 5
209 <210> SEQ ID NO: 14
210 <211> LENGTH: 6
211 <212> TYPE: PRT
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Based on Homo sapiens
217 <400> SEQUENCE: 14
218 Tyr Gln Lys Asn Asn Lys
219 1 5
220 <210> SEQ ID NO: 15
221 <211> LENGTH: 6
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Based on Homo sapiens
228 <400> SEQUENCE: 15
229 Leu Ile Lys Met Lys Pro
230 1 5
231 <210> SEQ ID NO: 16
232 <211> LENGTH: 6
233 <212> TYPE: PRT
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Based on Homo sapiens
239 <400> SEQUENCE: 16
240 Asn Phe Lys Ser Gln Leu
241 1 5
242 <210> SEQ ID NO: 17
243 <211> LENGTH: 6
244 <212> TYPE: PRT
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Input Set : A:\PTO.AMC.txt

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245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Based on Homo sapiens
250 <400> SEQUENCE: 17
251 Glu Trp Lys Ala Leu Thr
252 1 5
253 <210> SEQ ID NO: 18
254 <211> LENGTH: 6
255 <212> TYPE: PRT
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: Based on Homo sapiens
261 <400> SEQUENCE: 18
262 Ser Tyr Lys Met Ala Asp
263 1 5
264 <210> SEQ ID NO: 19
265 <211> LENGTH: 6
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Based on Homo sapiens
272 <400> SEQUENCE: 19
273 Thr Gln Lys Lys Val Glu
274 1 5
275 <210> SEQ ID NO: 20
276 <211> LENGTH: 6
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Based on Homo sapiens
283 <400> SEQUENCE: 20
284 Arg Gln Lys Gln Val Lys
285 1 5
286 <210> SEQ ID NO: 21
287 <211> LENGTH: 6
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Based on Homo sapiens
294 <400> SEQUENCE: 21
295 Gln Val Lys Asp Asn Glu
296 1 5
299 <210> SEQ ID NO: 22
300 <211> LENGTH: 6
301 <212> TYPE: PRT
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Based on Homo sapiens
307 <400> SEQUENCE: 22

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/496,231C

DATE: 07/22/2003
TIME: 08:12:53

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07222003\I496231C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3,4,5,6,7,8
Seq#:2; Xaa Pos. 2,3,4,5,6,7
Seq#:3; Xaa Pos. 1,2,3,4,5,6
Seq#:4; Xaa Pos. 2,3,4,5,6,8,9,10,11,12
Seq#:5; Xaa Pos. 2,3,4,5,6
Seq#:6; Xaa Pos. ~~1,2,3,4,5,6,8,9,10,11,12~~
Seq#:7; Xaa Pos. ~~1,2,3,4,5~~
Seq#:49; Xaa Pos. 3
Seq#:50; Xaa Pos. 1,2,3,4,5,6
Seq#:55; Xaa Pos. 2
Seq#:62; Xaa Pos. 1,10
Seq#:66; Xaa Pos. 4,6
Seq#:71; Xaa Pos. 5
Seq#:72; Xaa Pos. 1,2,3,4,5

VERIFICATION SUMMARY

DATE: 07/22/2003

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07222003\I496231C.raw

L:36 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:40 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:51 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:55 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:66 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:70 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:81 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:85 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:96 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:100 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:111 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:119 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:123 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:136 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:140 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:590 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:594 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49
L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:605 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:609 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50
L:613 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:674 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:678 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:55
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:757 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:762 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62
L:763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:808 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:813 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:897 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:901 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:71
L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:916 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:923 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:72
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0